

(19) World Intellectual Property
Organization
International Bureau



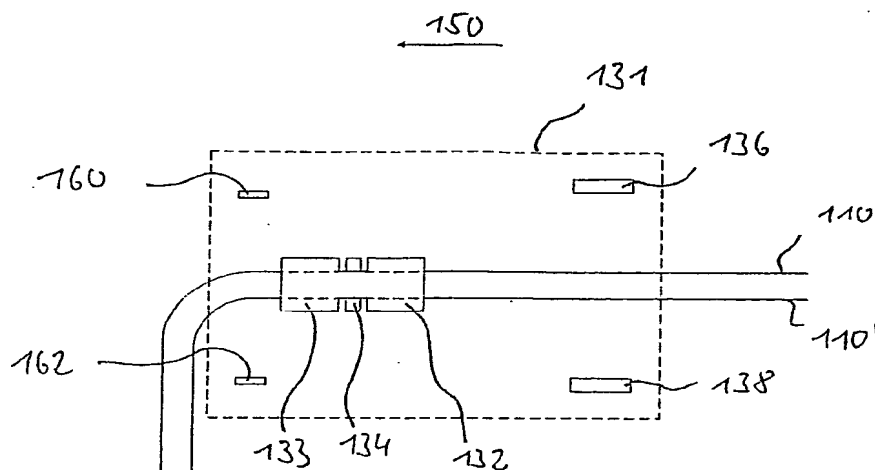
(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/075240 A1

- (51) International Patent Classification⁷: **B60L 5/00**, (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: **PCT/EP2005/000985** ✓
- (22) International Filing Date: 1 February 2005 (01.02.2005) ✓
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 04002234.5 2 February 2004 (02.02.2004) EP ✓
- (71) Applicant (*for all designated States except US*): **ROFA** [DE/DE]; Rosenheimer Förderanlagen GmbH, Geigelsteinstr. 4, 83059 Kolbermoor (DE). ✓
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **KOZSAR, Wolfgang** [DE/DE]; Am Schellbergacker 3, 83071 Stephanskirchen (DE). ✓
- (74) Agent: **HARTZ, Nikolai, F.**; Wächtershäuser & Hartz, Weinstr. 8, 80333 München (DE). ✓
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published: — with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **TRANSPORT SYSTEM WITH INDUCTIVE ENERGY TRANSFER** ✓



(57) Abstract: A transport system, comprising: (a) an underfloor high frequency alternate current primary conductor (10.10') for providing an electromagnetic field extending along said primary conductor for inductive energy transfer. (b) at least one electric transport vehicle (30) comprising: (b-1) two individually controllable and individually drivable drive wheels (36;38). (b-2) at least one pick-up unit (32) with a secondary conductor for said inductive energy transfer, said pick-up unit being pivotable relative to said vehicle and comprising at least one idle roller (40) adapted for being continuously contacted with the travel surface. (b-3) a sensor unit (34) adapted for sensing continuously a floor track signal. (b-4) a control unit which controls said two drive wheels in response to signals of said sensor unit for minimizing a deviation of said vehicle from said floor track signal, whereby said two drive wheels are arranged at a suitable distance in driving direction behind the axis around which the pick-up unit is pivotable for maintaining said pick-up unit essentially within said electromagnetic field during travel for a maximum of said energy transfer.